

# Lower San Gabriel River Watershed

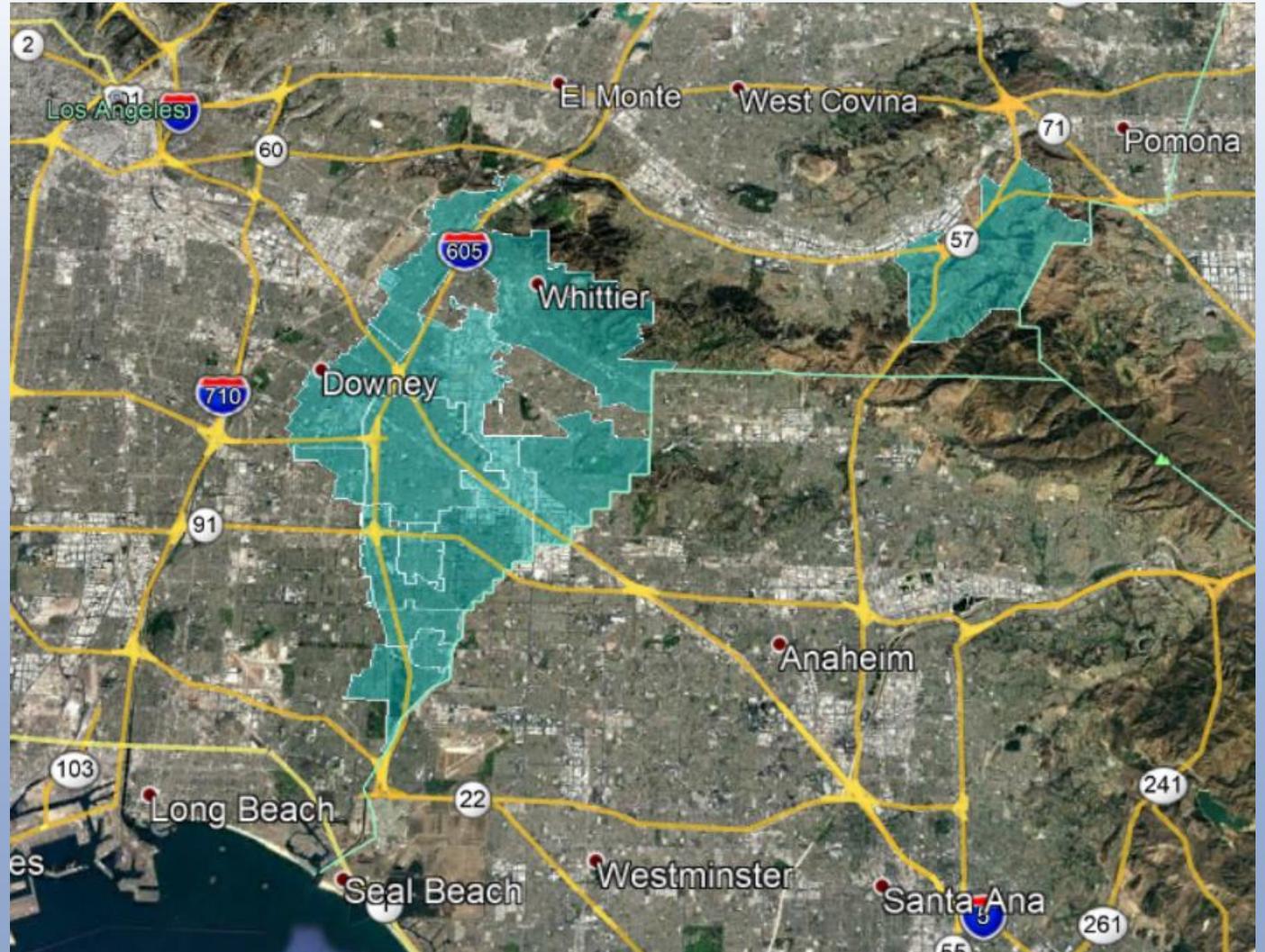
May 10, 2018



# Watershed Map

- Artesia
- Bellflower
- Cerritos
- Diamond Bar
- Downey
- Hawaiian Gardens
- La Mirada
- Lakewood
- Long Beach
- Norwalk
- Pico Rivera
- Santa Fe Springs
- Whittier
- Los Angeles County Flood Control District

Half of the watershed is comingled with runoff from Orange County



# Approach

## 1 Regional Projects

- After initial feasibility screening, 11 top tier project sites were identified

## 2 Green Streets

- Stormwater merged with Strategic Transportation Plan

## 3 Private Developments

- LID required at new development sites (public and private)



## Strategic Transportation Plan Final Report

*Submitted by*

**Cambridge Systematics, Inc.**

*Submitted to*

**Gateway Cities Council of Governments**

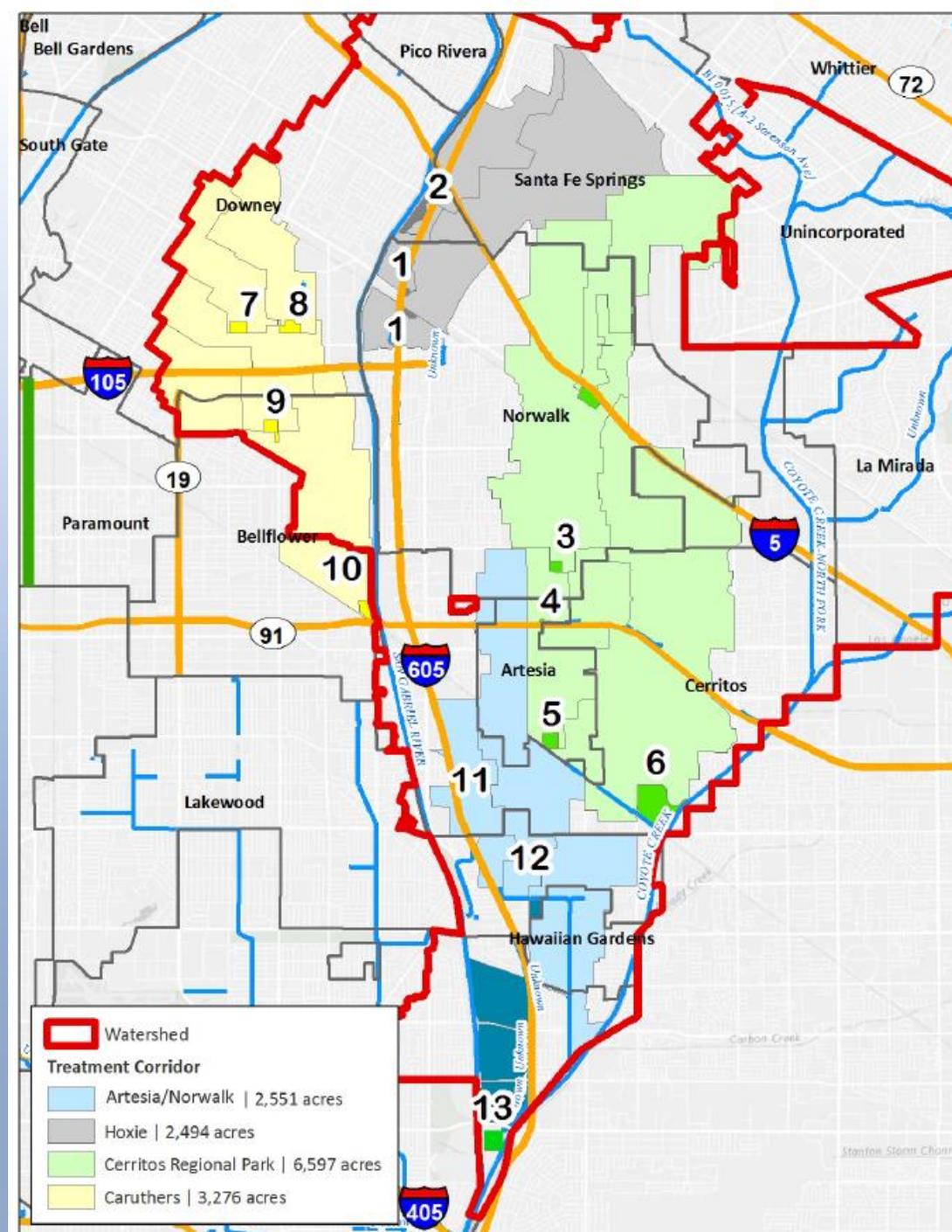
March, 2016

# Top Tier Regional Project Sites

Project Name	Jurisdiction	Estimated Cost	Status of Funding	Drainage Area (acres)	Rates of Infiltration	DAC
A.J. Padelford Park	Artesia	N/A	N/A	N/A	Infiltration not recommended	No
Bloomfield Park	Lakewood	N/A	N/A	1,166	Infiltration not recommended	Yes
Caruthers Park	Bellflower	\$13 million	Secured \$13 million in funding from Cal Trans	1,500	8.1 inches/hour at 5-12 feet	No
Cerritos Regional Park	Cerritos	\$16 million	Needed	2,900	0-6 inches/hour at 18 feet	No
Discovery Park	Downey	\$9.2 million	Needed	479	Site has previously been shown to be suitable for infiltration	Yes
El Dorado Park	Long Beach	\$14 million	Needed	Pending	Pending	Yes
Hermosillo Park	Norwalk	\$13 million	Needed	2,771	28.0 inches/hour at 10 feet; 37.1 inches/hour at 15 feet	No
Hoxie	Norwalk	\$6.5 million	Needed	300	IT-1: 1.4 inches/hour at 5 feet; IT-2: 2.4 inches/hour at 5 feet	No
Lakewood Pocket Park	Lakewood	\$8 million	Needed	514	Groundwater at 10 feet	Yes
Thompson Park	Bellflower	\$12 million	Needed	648	0.26 inches/hour at 15 feet; 5.89 inches/hour at 30 feet	No
Wilderness Park	Downey	\$10.2 million	Needed	558	Suitable for infiltration	No

# Top Tier Regional Project Sites

Project Number	Project Name/ Site	Jurisdiction
1	Hoxie	Norwalk
2	Wilderness Park	Downey
3	Hermosillo Park	Norwalk
4	A. J. Padelford Park	Artesia
5	Artesia City Park	Artesia
6	Cerritos Regional Park	Cerritos
7	Discovery Park	Downey
8	Independence Park	Downey
9	Thompson Park	Bellflower
10	Caruthers Park	Bellflower
11	Lakewood Pocket Park	Lakewood
12	Bloomfield Park	Lakewood
13	Artesia Norwalk Drain	Long Beach



# Testing at Potential Regional Project Sites



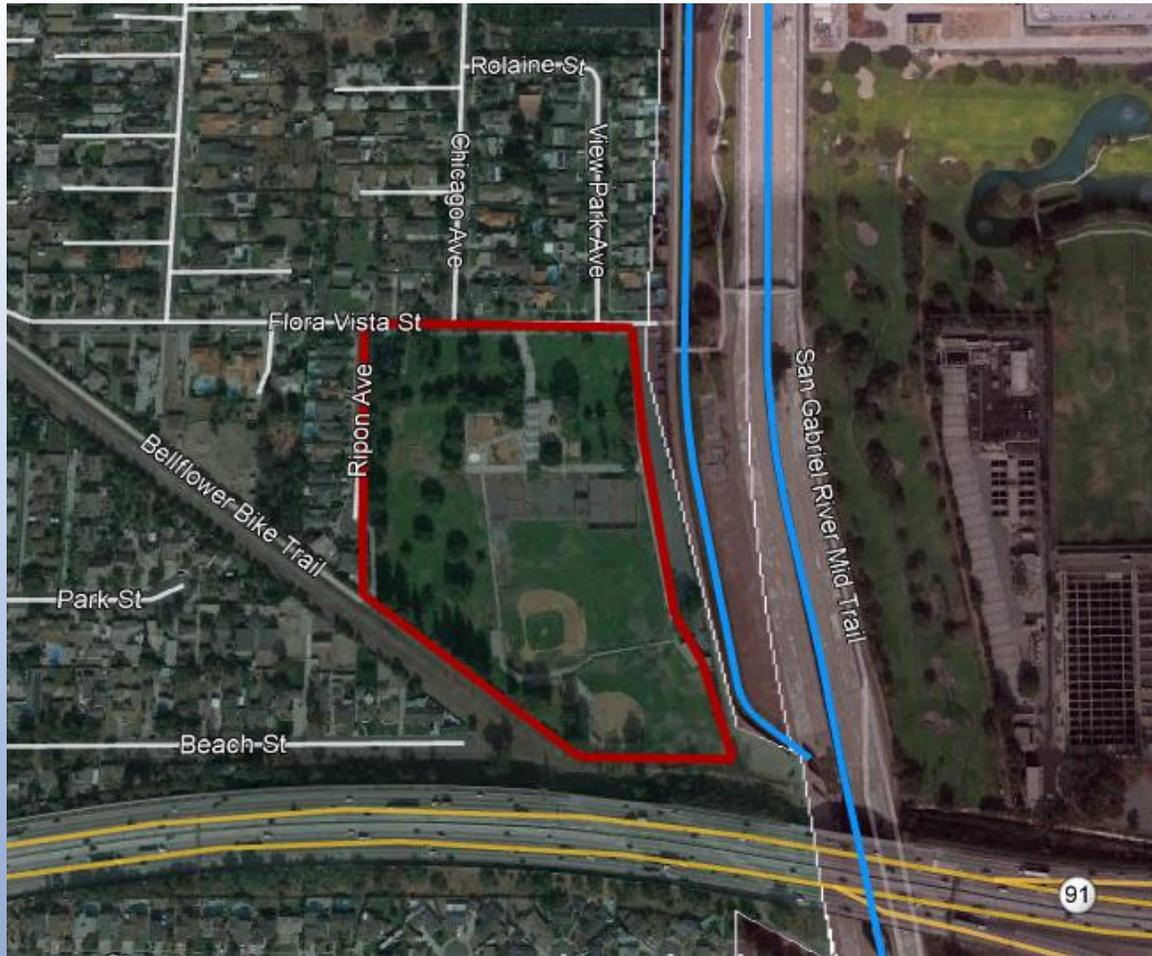
Percolation testing conducted at  
Cerritos Park



Percolation testing conducted at  
Thompson Park

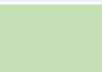


Percolation testing conducted at  
Lakewood Pocket Park



# Caruthers Park

- Shared project with the LCC
- Already funded
- 60% design is being completed

	Caruthers Park Boundary
	Los Cerritos Channel Watershed
	Lower San Gabriel River Watershed

# Green Street Examples

Swale in Downey





# Green Street Examples

Biotreatment in Diamond Bar

# Green Street Examples



Biofiltration system on Barlin Avenue in Downey



Biofiltration system on Shoemaker Avenue in Santa Fe Springs

# LID Activities on Private Developments



Bioretention system without underdrain



Infiltration trench



Vegetated swale with dry well

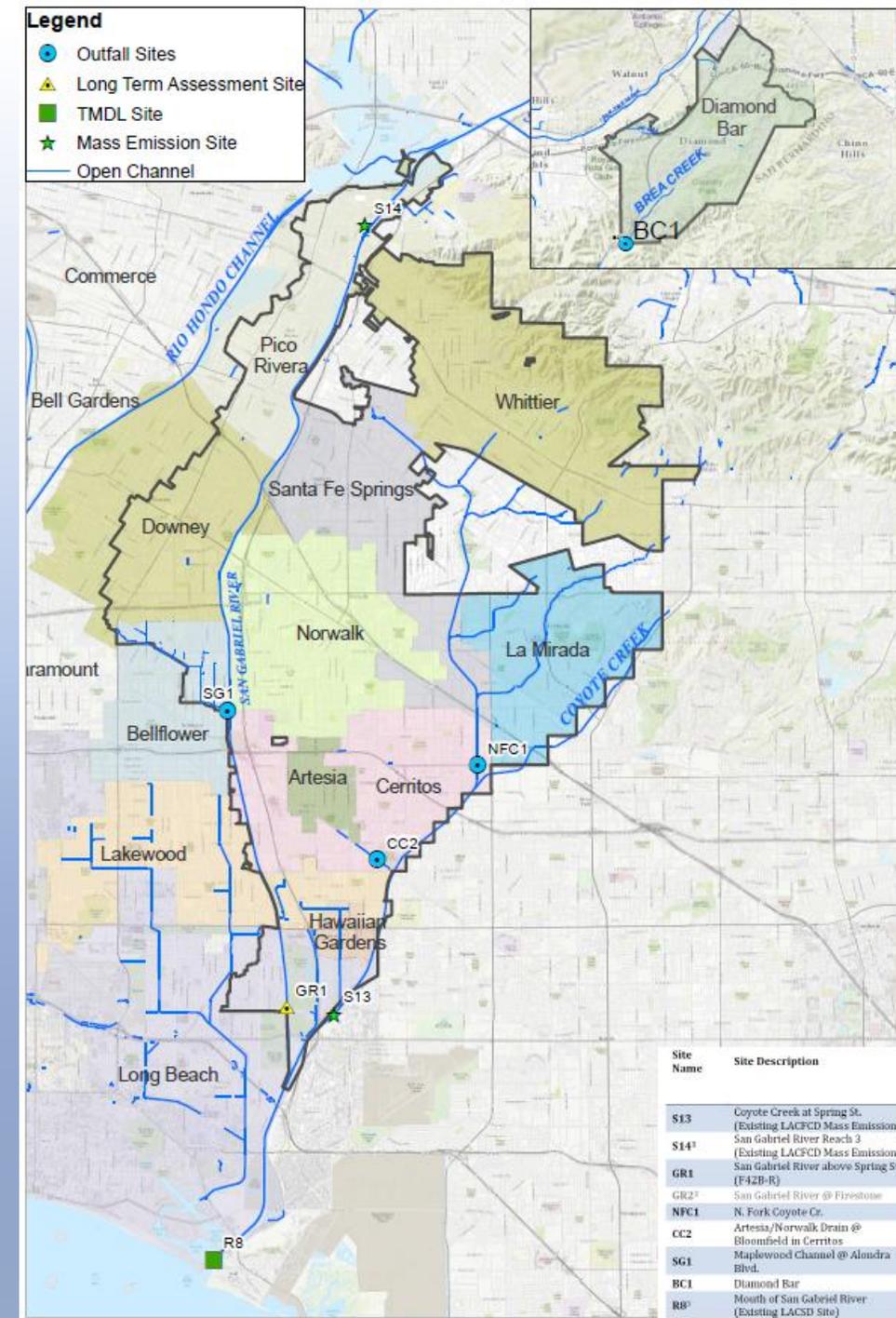


Permeable pavement

151 stormwater projects have been installed  
in the Lower San Gabriel River Watershed.

# Monitoring

- CIMP developed and approved
- Monitoring implemented from 2015-2018
- Non-stormwater outfall screenings
- 3 receiving water stations, 3 outfall sites
- Toxicity not found at monitoring sites
- Harbor Toxics TMDL: ultraclean sampling and high res. analyses to obtain concentrations and load data (PCBs, DDTs, PAHs)
- Data collected to address SGR Metals TMDL
- SGR Indicator Bacterial TMDL - Dry Season Compliance
  - High flow suspension conditions during storm events



# Public Outreach



Diamond Bar City Birthday Event 2017



Materials distributed at outreach events



Diamond Bar Earth Day and Arbor Day Celebration 2018

# Conclusions

- The LSGR is implementing the WMP and CIMP
- Power line easements and high ground water have severely limited suitable locations for regional projects
- Resources are limited and future funding is a primary concern
- Technical challenges meeting established goals for pollutants such as indicator bacteria and legacy pollutants